



MARK PESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

February 5, 2019

IN REPLY PLEASE
REFER TO FILE: **SM-1**

Mr. Dave Davies
Director of Public Works
City of Glendora
116 East Foothill Boulevard
Glendora, CA 91741

Attention Ms. Alison Sweet

Dear Mr. Davies:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV1314B2**

This letter is to inform you that Los Angeles County Public Works Consolidated Sewer Maintenance District has completed a condition assessment of the City of Glendora's sewer system.

The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your sewer mainlines. Please note that four previous reports covering the balance of your system were transmitted to your City on June 3, 2009, September 22, 2010, and December 11, 2012. The information contained in all five reports should be included in your agency's Sewer System Management Plan as a reference in Chapter 8, System Evaluation and Capacity Assurance Plan.

The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule for continued monitoring. In addition, segments with severe structural defects have either been repaired or will be scheduled for corrective action as part of the ongoing Accumulative Capital Outlay Program.

Mr. Dave Davies
February 5, 2019
Page 2

If you have any questions regarding this report or the Condition Assessment Program, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390, Monday through Thursday, 7 a.m. to 5 p.m. or at keskridge@dpw.lacounty.gov.

Very truly yours,

MARK PESTRELLA
Director of Public Works



WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

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Enc.

**CONDITION ASSESSMENT REPORT
LOS ANGELES COUNTY PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

100% SUMMARY

SUP.	5	CITY:	Glendora
DISTRICT(S)			
Report By:	Hanna Kebede & Clement Khong	Report Date:	1/7/2019

INTRODUCTION

As part of the Sewer Condition Assessment Program, Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television inspection of 739,242 feet or 100 percent of the City of Glendora's (City) sewer system.

The closed-circuit television inspection of the City was completed in five projects (Project Nos. Y0TV0506D, Y0TV0708F, Y0TV0809C, Y0TV1011A, and Y0TV1314B2). A copy of the Condition Assessment Reports for Project Nos. Y0TV0506D, Y0TV0708F, Y0TV0809C, and Y0TV1011A can be found in the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. Enclosed for your reference is the Condition Assessment Report for Project No. Y0TV1314B2.

SUMMARY MAINTENANCE REPORT

Our inspection revealed that approximately 83.4 percent of the system televised was free of significant blockages or restrictions that would impede sewer flows. The remaining 16.6 percent of the inspected pipe segments within the City had a Pipeline Assessment and Certification Program (PACP) maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been addressed with corrective action taken as noted in the enclosed reports.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	116,092	15.7	529
2: Minor to Moderate	500,566	67.7	2,111
3: Moderate	40,648	5.5	153
4: Significant	79,296	10.7	291
5: Most Significant	2,640	0.4	10
TOTAL	739,242	100.0	3,094

SUMMARY STRUCTURAL REPORT

Our inspection revealed that approximately 95.2 percent of the inspected pipe segments within the City were free of significant structural defects. The remaining 4.8 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. The priority lists for these items are located in the enclosed reports.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	602,726	81.5	2,560
2: Minor to Moderate	51,847	7.0	204
3: Moderate	49,255	6.7	190
4: Significant	23,040	3.1	89
5: Most Significant	12,374	1.7	51
TOTAL	739,242	100.0	3,094

**CONDITION ASSESSMENT REPORT
LOS ANGELES COUNTY PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

PROJECT NAME:	Y0TV1314B2	PROJECT MGR:	Eric Liu
PROJECT DATE:	7/23/14	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	5	MAP PAGE(S):	2342 & 2385
Report By:	Hanna Kebede & Clement Khong	Report Date:	1/7/19

INTRODUCTION

Los Angeles County Public Works Consolidated Sewer Maintenance District (District) conducted a condition assessment of 99,369 feet or 13.5 percent of the City's entire sewer system as part of Project No. Y0TV1314B2.

The enclosed Condition Assessment Report outlines the structural and maintenance ratings of your system based on the PACP's (Version 6.0.1) rating methodology. Included in the report are the following:

- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Map, and Sample Lateral Notice Letter (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)

The Sewer Condition Assessment Program utilizes the PACP Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project No. Y0TV1314B2 included sewer lines located in the unincorporated County of Los Angeles and the Cities of Glendora, Commerce, La Cañada Flintridge, Industry, and Walnut. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects while a grade of 5 indicates that a pipe segment may require immediate attention. A legend of the five possible defect grades is as follows:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 88.2 percent of the system televised in your City as part of Project No. Y0TV1314B2 was free of significant blockages or restrictions that would impede sewer flows. The remaining 11.8 percent of the pipe segments within the City had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken.

A color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	67,324	67.8	318
2: Minor to Moderate	20,248	20.4	83
3: Moderate	8,386	8.4	30
4: Significant	3,411	3.4	12
5: Most Significant	0	0	0
TOTAL	99,369	100.0	443

Lateral Notices

Also included in the maintenance inspection reports are private lateral deficiencies discovered during the assessment of the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Letters have been sent to property owners in your City notifying them of the maintenance issues detected in their laterals. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that high water levels were not detected in any pipe segments in your City's system.

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segments in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 95.8 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 4.2 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 19 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant a corrective action, the proposed corrective action will be programmed in the next 24 months as part of the ongoing Accumulative Capital Outlay Program.

A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	64,954	65.4	300
2: Minor to Moderate	21,544	21.7	90
3: Moderate	8,685	8.7	34
4: Significant	2,875	2.9	13
5: Most Significant	1,311	1.3	6
TOTAL	99,369	100.0	443

CONDITION ASSESSMENT PROJECTS

The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the City according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-06	Y0TV0506D	73,405	9.9	COMPLETED
2007-08	Y0TV0708F	97,704	13.2	COMPLETED
2008-09	Y0TV0809C	301,392	40.8	COMPLETED
2010-11	Y0TV1011A	167,372	22.6	COMPLETED
2013-14	Y0TV1314B2	99,369	13.5	COMPLETED
TOTAL		739,242	100.0	

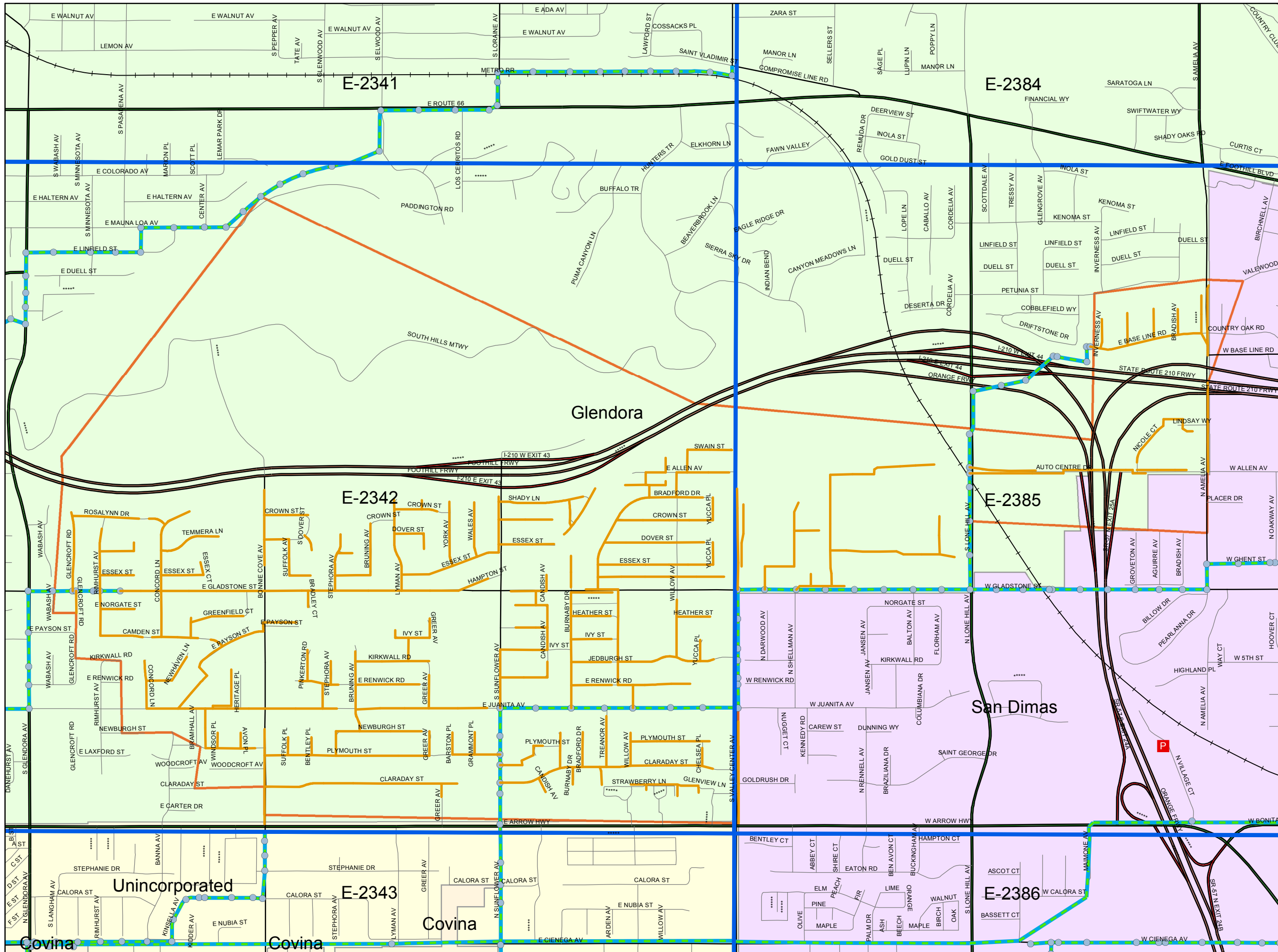
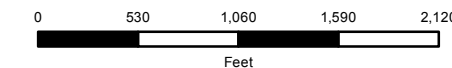
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT Y0TV1314B2

CITY OF GLENORA



Legend

- SMD Sanitary Sewers
- SMD Manholes
 - Other
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Trunk Sewerlines
- CCTV Project Area

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ENCLOSURE 2:

- Quick Maintenance Rating Map
- Sample Lateral Notice Letter

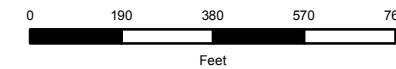
ENCLOSURE 2

CCTV PROJECT

Y0TV1314B2

CITY OF
GLEN DORA

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers QMR

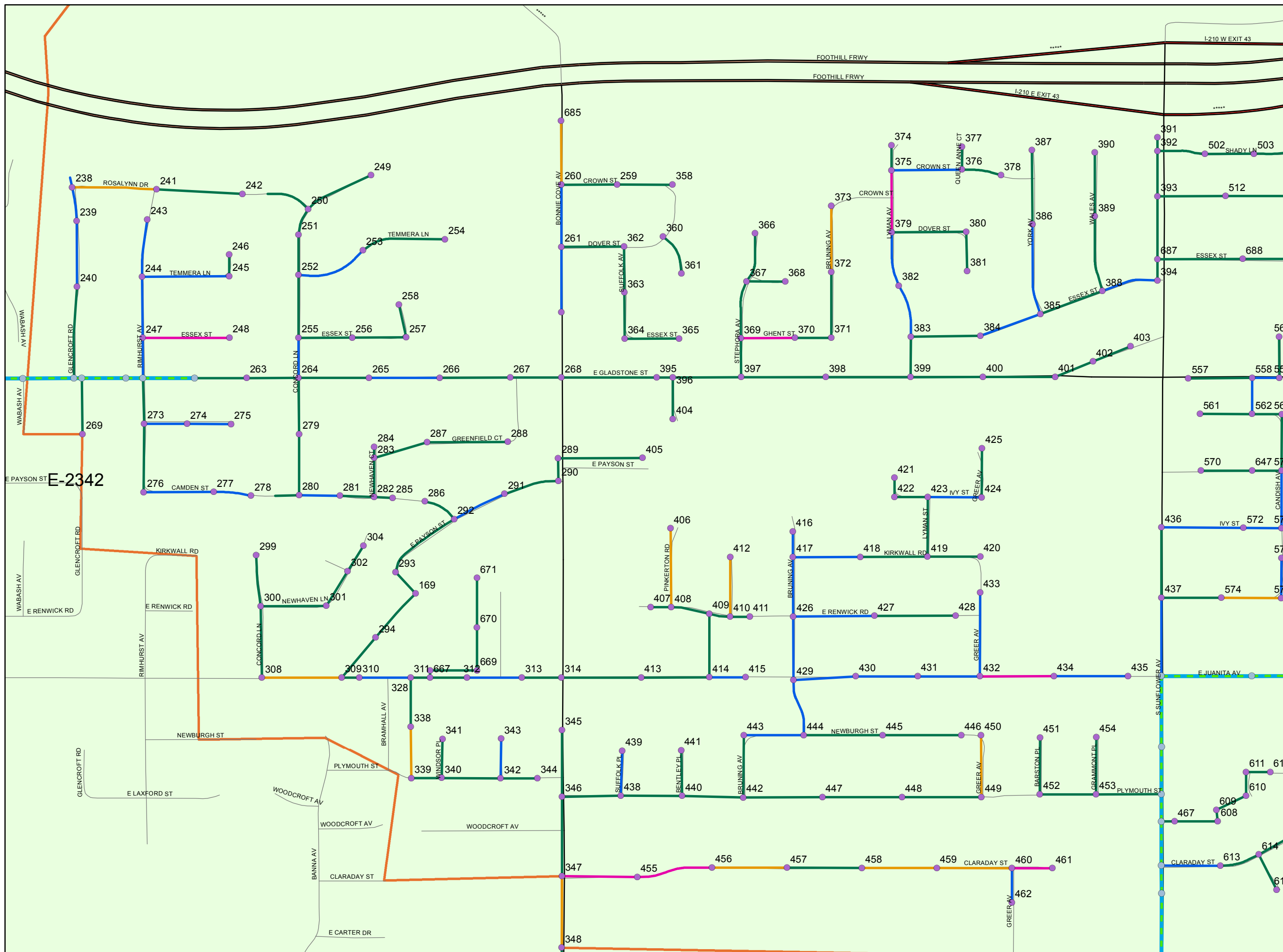
- 1: MINOR
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- 4: SIGNIFICANT

SMD Manholes

- Other
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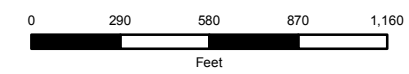
ENCLOSURE 2

CCTV PROJECT

Y0TV1314B2

**CITY OF
GLENDDORA**

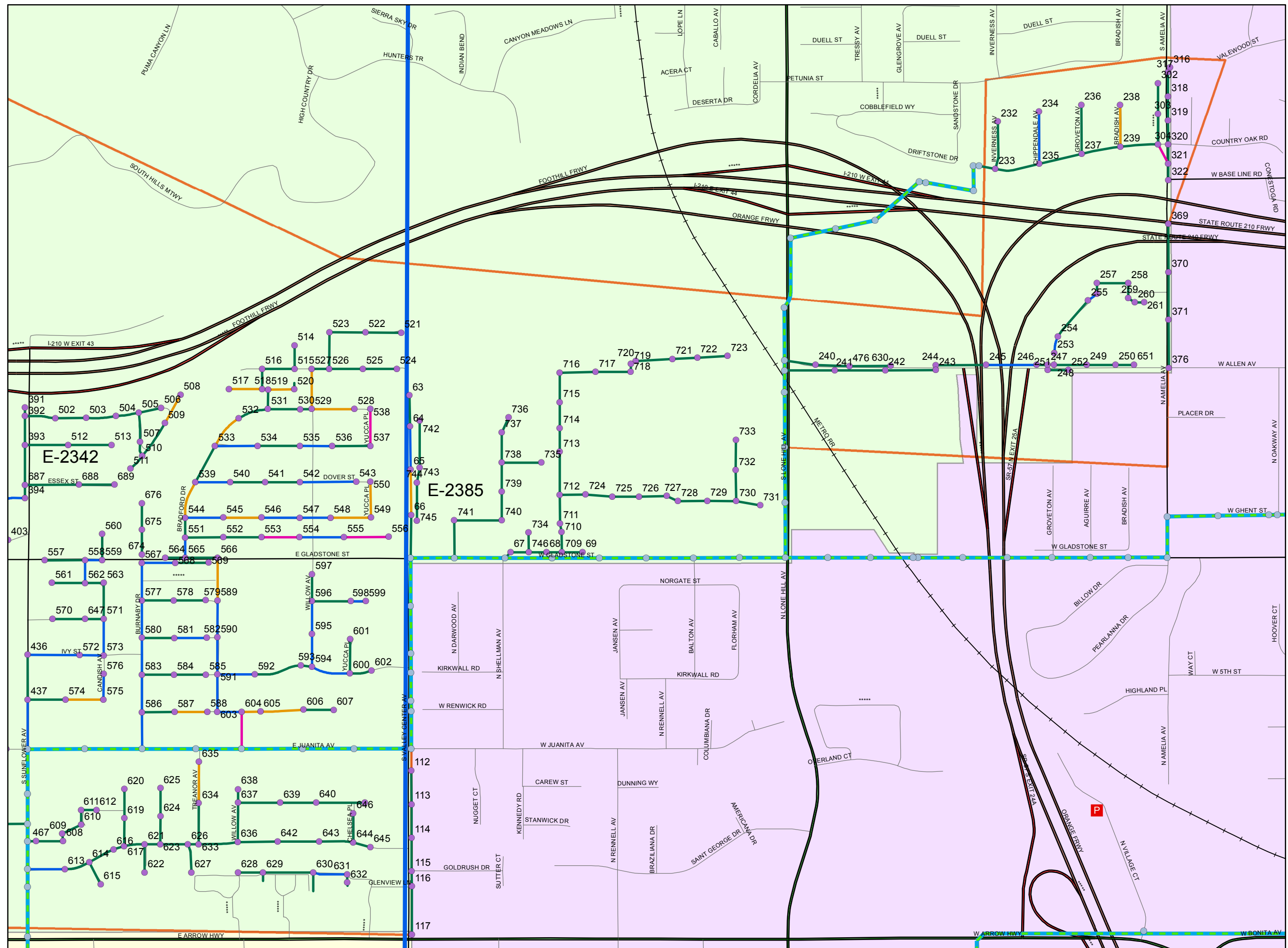
**QUICK
MAINTENANCE
RATING
(QMR)**



- Legend**
- SMD Sanitary Sewers**
- QMR**
- 1: MINOR
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- SMD Manholes**
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- Manhole Type**
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SEPTEMBER 2018





NOTICE OF SEWER LATERAL ROOT INTRUSION CONSOLIDATED SEWER MAINTENANCE DISTRICT

Property Owner/Occupant
1234 Mailing Street
Mailing City, California 99999

The County of Los Angeles Consolidated Sewer Maintenance District (District) is responsible for the maintenance of the sanitary sewer system in your area. A camera inspection of the sewer mainline discovered roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing an overflow to your property and/or those immediately upstream of your property. You are hereby requested to perform maintenance on your private sewer lateral.

In accordance with **County Code 20.24.080 Maintenance of Sewer Laterals**, ***"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."***

The property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a licensed plumber to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Your licensed plumber is required to protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection. Prior to your plumber cleaning your lateral, please notify the District's sewer maintenance yard in your area at (123) 456-7890 for authorization to access the downstream manhole.

We have included literature on ways to minimize sewer overflows and damage to your home. Please consider establishing a routine cleaning schedule for your sewer lateral to minimize potential plumbing problems caused by root intrusion that are likely to reoccur.

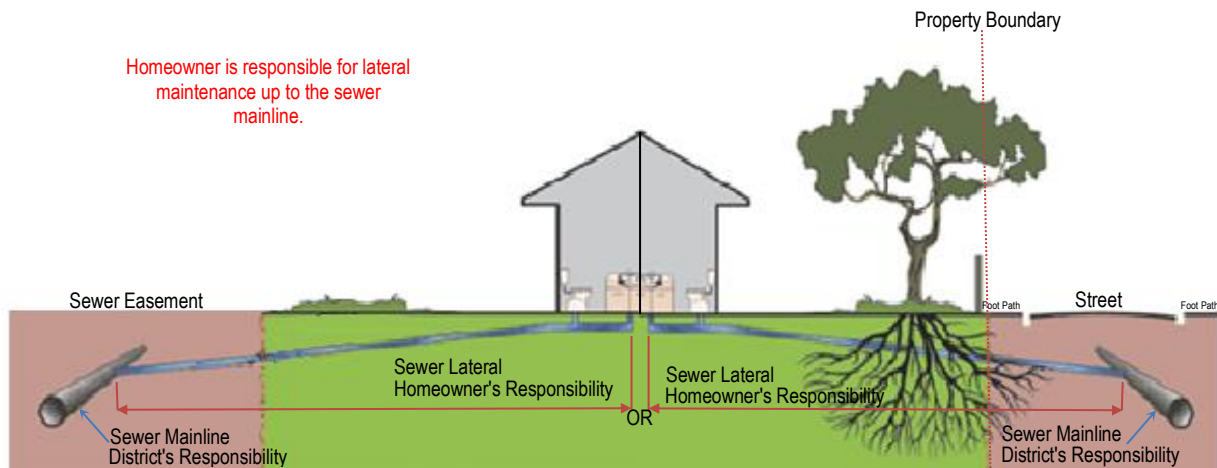
If you have recently cleaned your sewer later, no further action is necessary. If you have any questions, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390 or keskridge@dpw.lacounty.gov.

Thank you for helping keep the sewer lines clean and in good working order.

Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the District is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus, minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement.
2. Do not place improper items into the sewer or make improper connections to the sewer.
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF GLENDORA (Y0TV1314B2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2342-0437	2342-TRNK	SUNFLOWER AV	Fracture multiple, Broken	No action needed*
2	2342-0532	2342-0533	BRADFORD DR	Broken	No action needed*
3	2342-0605	2342-0604	RENWICK RD	Broken	No action needed*
4	2342-0310	2342-0309	JUANITA AV	Broken	No action needed*
5	2342-0393	2342-0687	SUNFLOWER AV	Broken	No action needed*
6	2342-0311	2342-0310	JUANITA AV	Broken	Point repair
7	2342-0604	TRNK	EASEMENT	Fracture multiple	Lining
8	2342-0309	2342-0308	JUANITA AV	Fractures	No action needed*
9	2342-0519	2342-0531	EASEMENT	Fractures	Lining
10	2342-0520	2342-0519	EASEMENT	Broken	No action needed*
11	2342-0369	2342-0397	STEPHORA AV	Fractures	No action needed*
12	2342-0539	2342-0544	BRADFORD DR	Fractures	Lining
13	2342-0565	2342-0566	GLADSTONE ST	Fractures	Lining
14	2342-0531	2342-0532	BRADFORD DR	Fractures	Lining
15	2342-0551	2342-0565	BRADFORD DR	Fractures	No action needed*
16	2342-0253	2342-0252	TEMMERA LN	Fractures	No action needed*
17	2342-0516	2342-0518	EASEMENT	Broken	No action needed*
18	2342-0508	2342-0509	EASEMENT	Fractures	No action needed*
19	2342-0517	2342-0518	EASEMENT	Fractures	No action needed*

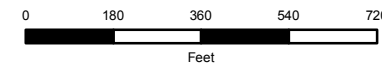
*Structural deficiencies are categorized into groups of defects or observations with a wide range of severity. Each of these deficiencies received additional post inspection review and some of these were determined not likely to interfere with the normal operation of the sewer line due to the severity, size, and/or location of the deficiency. These segments will be reviewed during the next cycle of CCTV inspections.

ENCLOSURE 3

CCTV PROJECT Y0TV1314B2

CITY OF
GLEN DORA

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

QSR

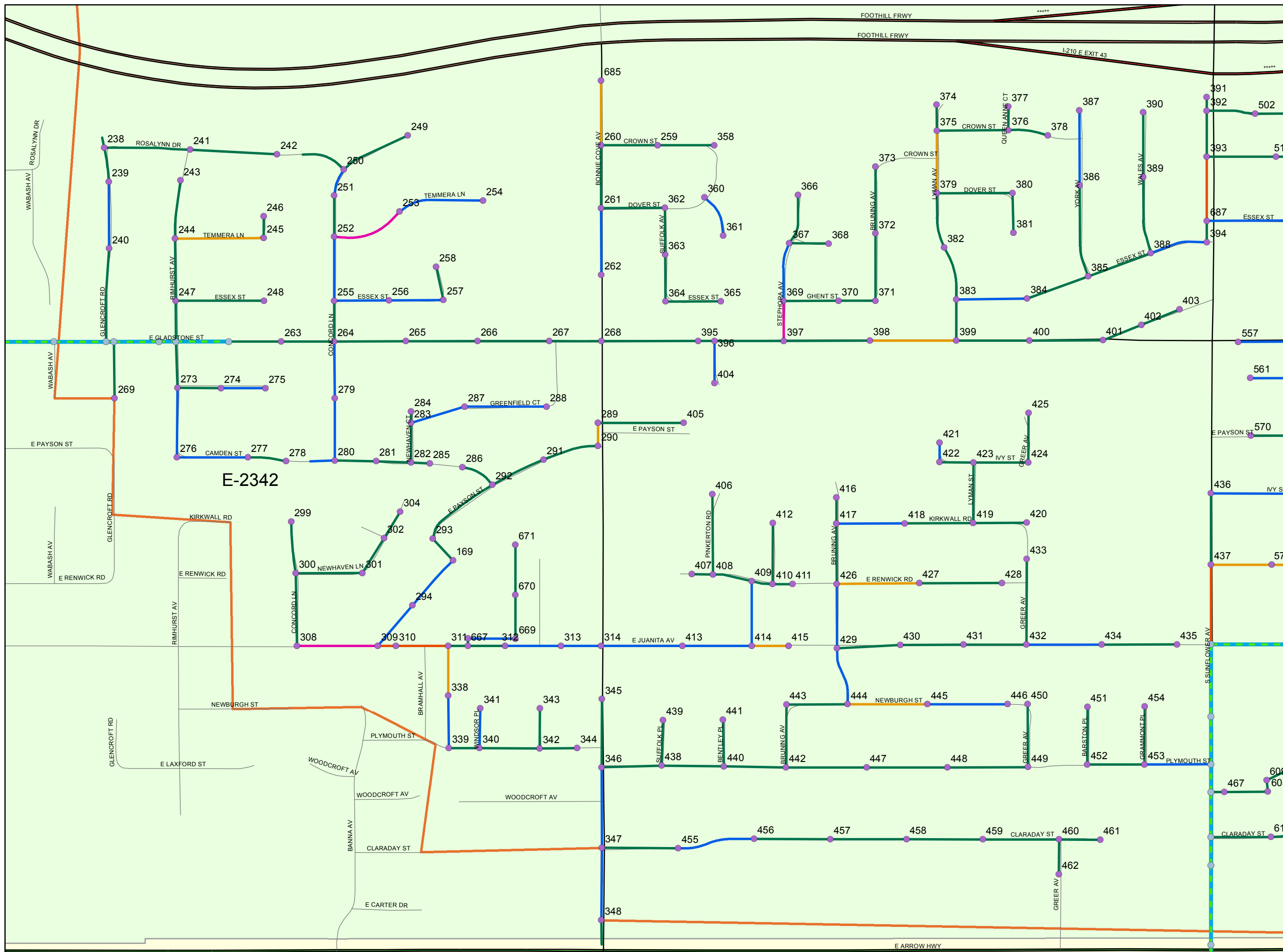
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SMD Manholes

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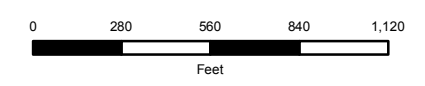
ENCLOSURE 3

CCTV PROJECT

Y0TV1314B2

**CITY OF
GLEN DORA**

**QUICK
STRUCTURAL
RATING
(QSR)**



Legend

SMD Sanitary Sewers QSR

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